PAT-NO: JP410124528A

DOCUMENT-IDENTIFIER: JP 10124528 A

TITLE: METHOD, DEVICE FOR MANAGING
MULTIDIMENSIONAL DATA AND
                       MEDIUM STORING MULTIDIMENSIONAL DATA
MANAGING PROGRAM

PUBN-DATE: May 15, 1998

INVENTOR-INFORMATION:
NAME
KAMIMURA, SHUICHI
FUJIWARA, MUTSUMI
HASEGAWA, YOSHIRO
WADA, KIYOSHI

ASSIGNEE-INFORMATION:
NAME   COUNTRY
TOSHIBA CORP   N/A

APPL-NO: JP08294403

APPL-DATE: October 16, 1996

INT-CL (IPC): G06F017/30, G06F012/00 , G06T001/00

ABSTRACT:

    PROBLEM TO BE SOLVED: To provide a method, a device for
managing
multidimensional data and a medium storing its program with
which processing
such as registration, deletion or retrieval can be
accelerated while
effectively utilizing a memory.

    SOLUTION: This method is provided with a
multidimensional data registering/
deleting means 10 for registering/deleting the

multi-dimensional data in a
multidimensional data storage means, tree structure managing means 9 for
hierarchically dividing this multi-dimensional space into plural meshes, making
the meshes of respective divided hierarchies correspondent to the respective
nodes of tree structure and storing the relation of correspondence between the
respective meshes and the respective nodes, and mesh data storage means 7 for
registering information concerning these multidimensional data in the
respective divided meshes. Then, based on the information registered in these
respective mesh data storage means, the multi- dimensional data stored in this
multidimensional data storage means are managed. The number of pieces of
multidimensional data to be registered in these terminal meshes is set less
than a fixed value and when the number of pieces of multidimensional data to be
registered in the terminal meshes exceeds this set value, these meshes are
divided by a mesh dividing means 13.